SOB Release Notes

To SOBvMAX r7.65 (14th Feb 2007)

Revision = R".6.01" 13 Apr 06

- Pasttrack QuickInfo wasn't showing COG & SOG if either was Zero, now it's not displayed if only COG=0.00
- Ships target (VECTOR) wasn't updating in two-monitor systems
- Improved drawing of route marks
- Tidal-Stream polar graphing included
  - TODO: Need to add choice of other days for future predictions
- Error with UTC in track logfile fixed - however previous logfiles will not resave correct time if opened in a different time zone!
- Fixed error with AIS Class B Msg19
- Fixed RMC output
  - Added extra RMC output option.
  - RMC now full sentence, if CheckSums is ticked then a CS is added

Revision = R".6.1" 08 Jul 06

- Added "Ignore Stationary" targets to TARGETS form and Collision display logic, set to "0" to DISABLE Ignore Stationary targets
- Added [SOB PORTS] button to Raw NMEA Form
  - TODO: SOB_PORTS.EXE must be distributed with SOB
  - SOBvMAX.6.15+ will shell to app thus:
    "SOB_PORTS.EXE auto", so SOB_PORTS knows if being called from SOB
- Added "\\.\COMxxx" string for opening COM ports from COM1 to COM255
- First look - CDepths dialog and class
  - [4] key opens Depth form

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Revision = R".6.15" 14 Aug 06

- AIS Speed=102.3 correctly now displays as "N/A"
- UserCard support for LEFT slot in USBMM implemented
  - TODO: RIGHT slot needs testing with C-Map formatted SD card
- Wind shadow on wpts fixed for non North-Up chart orientations
- RBL wind-angle guidelines shown if wind tools ON
- Dampening/Calibrating structures created, saved to Registry
  - TODO: write dampening/calibrating forms and coding in NMEA routines
  - Data can be dampened (averaged) over time or a fixed rolling count:
  - NOTE: Count has priority over time
    If count is set, then seconds are ignored
    Set count to 0 and seconds will be used
- Added SAR AIS sentence Type 9 (Search and Rescue)

Revision = R".6.21" 28 Aug 06

- FIXED: AIS Lat/Lng position problems in certain locations.
  - "Fix: AIS..." Tickboxes on NMEA form removed
- Corrected "Ignore Stationary" Targets when sog<1.0 kn
- Fixed bug with AutoPurge while Column sorting
- Removed extra message box pop-up when refreshing WAN Client connections
- Added Tracked Target red highlight circle, plus OwnShip & Target CPA positions joined by thick red line, and Target's predicted track by thin dashed red line
- Added alarms for:
  - new collision threat targets
  - new target entering safezone
  - Alarms ON/OFF button added to Targets form
    - NOTE: Temporary UI awaiting CAlarms dialog form
- Purge Inactive Targets and their PastTracks works when Target form is hidden

- Added AIS msg types 4 & 11 - "Base Station Reports"
  - Base Stations print as round mark, with their UTC report as the "Name Label"
- ChartBorder settings now saved between SOB sessions
- Added NMEA sentences - ALR, TXT
  - Received text Messages are printed to VP_MSG
- PastTracks ignore "restart" if "Restart every ?? hours" = zero, (or not time for restart yet)
- "Track 002(2006-09-04).txt" now called:
  "Track (2006-09-04) 002.txt" to improve alphabetical sorting on filename by "day"
- Route exported to TXT files now saved in Waypoints folder so it can be easily imported as a Wpt list
- TrackBack routes now saved to TrackBack folder
- Changed "Set" to "Rate" on Tidal Stream Graph form (per user comment)

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Revision = R".7" 9 Sept 2006

- SOB prepared for translations
  - Translation notes:
    How foreign language Windows stores :
    osk.exe and Theme Colour Tables names in Registry
- Changed Current "Set & Rate" back to "Set & Drift"
  - refer Bowditch
- Added alarms struct to VAR to prepare for CAlarms form
- Targets form is resizable (well really only the list)
- OverZoom now tied to MixLevels to avoid MixLevel display problem at chart level borders
  - ie: OverZoom = NOT MixLevels
  - ***TODO: Still not right. Check Svein's bridge at: 59 16.5N , 5 28.5E
  - C-MAP acknowledges MixLevel scale error with mixtures of NT and MAX charts
- Cleaned up some text on AutoRoute form (Nm², Current Set & Drift)
- Fixed up *most* of Depths form (have to solve/resolve the highlighting vs. land/sea shading settings)
- ***(UNTESTED)
  Added CCriticalSection to sobNMEA for WAN CStringArray control to reduce number of erroneous messages sent in SOB SERVER mode

Revision = R".7.04"; 23 Sept 2006

- Small fixes for text formatting and display that were corrupted by the stringtable extraction (WPT arrival VP_MSG, Active Rte - both btns were "Details", Ship's Data form not re-sizing, ??couldn't reproduce?? GC inserted RTMs were all "TP-1").
- VPs made resizeable, and general VP housecleaning
- Colour other items according to nightmode settings
  - VP_SHIP (text only)
  - VP_AIS (background only)

Revision = R".7.05" 28 Sept 2006

- Added "Remember AIS Names" – keep a database (via Friends list) of received AIS Names and MMSIs so names can be used in future without waiting for msg 5
- AIS (COG) Pointer now corrected for chart orientation
- SHIFT,F4, if not in shading mode, will first enable shading, then toggle the highlight band
  - CONTROL,F4, change to alternate C-Map supplied palettes:
    - CMGI_PALETTE_DEFAULT 0
    - CMGI_PALETTE_EMULATE_GREEN 1
    - CMGI_PALETTE_EMULATE_GRAY 2
    - CMGI_PALETTE_EMULATE_COLOR_LCD 3
    - CMGI_PALETTE_PRINT 4 *skipped
    - CMGI_PALETTE_BA 5
    - CMGI_PALETTE_NOAA 6
    - CMGI_PALETTE_USER 7 *skipped
    - CMGI_PALETTE_RAYTHEON_128 8
    - CMGI_PALETTE_EMULATE_COLOR_LCD_PAT

- NEW Target Limits

- GOD = 10000
- MUC = 5000
- PRO = 1500
- COMMERCIAL = 1500
- STANDARD = 400
- REGISTERED = 80
- LITE = 20

Revision = R".7.06" 10 Oct 2006

- Fixed Target purge when Inactive Time is disabled
- Don't draw CPA guides if not "collision_possible"
- Fixed Target label drawing when name is first received leaving a ghost ..still a ghosting problem when the screen is clipped
- Fixed Translation crash with Object Form
- Changed all NMEA output commands to disabled unless the tickbox is checked (NMEA Output page). Changed all Tx functions to only send if Output mode enabled
  - There were many freeze opportunities when Tx to incompatible virtual port etc
- Fixed various translation layout issues on AllWaypoints form

Revision = R".7.09" 22 Oct 2006

- N2D caption updated each refresh (for when WPT Dest not updating)
- TrueWind calculated relative to HDG (if available from electronic compass etc)
- F11 - AllWpts fixed to F10 in Route Export text
- Text in PastTrack too big message fixed for foreign languages
- Route Naming fixed (double names)
- Fixed problem with TRGTS VP when Tracked target is lost (purged)
- Changed keyboard shortcuts [1] & [2] to [8] & [9]
  - Key [1] now show/hide Main Toolbar
  - [2] now show/hide Statusbar
  - [8] Use Virtual Zooms (neither of these 8,9 options are currently in use)
  - [9] Use Fixed Scales
- Fixed TP names when making new route (TOTEST)
- RMB Sentence added

Revision = R".7.14" 14 Nov 2006

- Added SOB version number to NMEA LogFile hdr
- Changed F3 buttons to open dialogs:
  - Chart Borders (same as [B] key)
  - Changed Graticule button to Night-Mode dialog (same as [F7] key)
  - DepthShade button opens Depths DLG if Info mode (also [4] key)
- DSC/VHF Upload (Fixed the message text about which COM port is to be used)
- Added [G] shortcut key to toggle Graticule
- Added [W] key to toggle display of Wind tools
- Check every 5 seconds for GPS data received from a primary data source. Pink screen if no fix data found
- Main toolbar icons adjusted to improve nightmode display (white added to arrows etc, yellow removed or decreased from many)
- NightMode form completed
- Final AIS ROT fixes – TESTS AOK
  - Turn rates bigger than 720 deg/min now indicated by ">+>" and "<+<"
- Fixed QuickInfo display when lines are very long (force QuickInfo dlg to max of 600 pixels, and add a line to the end: "Some text missing, click for more")
- Target HDG shows as "N/A" when heading data is invalid
- DCPA & TCPA in Target InfoBox on Targets List form shown with units used (nm, hrs/mins etc)
- Initial drawing of target name label ghosting is fixed
- CPA calculations re-worked, with improved accuracy

Revision = R".7.16" 19 Nov 2006

- Route GreatCircles leg conversions now work in all instances

- When converting back from GC legs to RL – the first GC mark is now also deleted (unless it's the first mark of the route)
- Fixed targets with lat/lng (0,0) showing as HIGH collision potential
- Fixed Crash in VP_AIS when tracked target has been auto purged

Revision = R".7.17" 20 Nov 2006

- Added "WPL export to GPS" function on All Waypoints form
  - **Instructions**: In AllWaypoints form [F10], select the wpt file to upload, press the [<==] button and uploading starts automatically. (You may have to prepare the GPS for wpt reception)
  - Only whole wpt file can be uploaded, so to upload only selected wpts, save them first to their own file, then select and upload that file.
  - As per NMEA standards, a single WPL sentence is sent every two seconds. A running count is kept in the caption, and if you widen the fourth column in the list (which is shrunk and hidden by default), you can see "Tx" is inserted as the wpt is sent.
  - You must have GPS Output ticked on NMEA form, with the correct port selected (where the GPS is attached).
  - Wpt names are truncated by SOB to 8 characters when uploaded. Some GPS only allow 6 characters and will not accept any wpts with the same name as any already in the GPS, so for example if you have these in SOB: "Wpt 010" and "Wpt 011" then the first 6 characters are the same, so the GPS may not import "Wpt 011" if it "sees" them both as "Wpt 01".

Revision = R".7.18" 22 Nov 2006

- Selected (multiple, individual) wpts can be uploaded to the GPS: If more than one wpt is highlighted in the right-hand list (All Waypoints form), then these are sent to the GPS; however if only one (or none) are highlighted, and a filename is selected, then this selected entire file will be sent.
  - Wpt lat/lng accuracy increased to 4 decimal places for wpt transfers (Rx and Tx)

Revision = R".7.19" 22 Nov 2006

- Added a check when exporting wpts (WPL) to ensure that a COM port is connected, and configured as the GPS Output. Message Boxes will enlighten the user if there is a problem.

Revision = R".7.20" 26 Nov 2006

- For translations:
  - Cleaned up cardinal points. Either foreign language, or English (for NSEW) are acceptable.
  - Compass points will be displayed in local language cardinal letters (eg: NNE, WSW, SE etc)
  - Local installed language shown in About SOB form
  - EVERY form tweaked, many forms enlarged, new button layouts to allow for longer captions

Revision = R".7.22" 27 Nov 2006

- Added Red (closed), Green (open) and Yellow (auto) colours to Port buttons on NMEA form
- Added ShipsBells. Sound through PC sound system every half-hour.
  - Use [7] to turn on/off or test. Press [7] and if you hear "4 bells" then ShipsBells is ON. Press [7] again, a faint "blip" can be heard through the PC's internal speaker – ShipsBells is now OFF.
  - New folder included in SOB setup, or can be manually created:
    "C:\SOBvMAX\Media\Sounds" which contains the ".WAV" files.
    This "Media" folder structure will be further developed in future SOB versions.

Revision = R".7.25" 5 Dec 2006

- Added "Dampen & Calibrate" form and function to all incoming data (lat, lng, cog, sog, hdg, spd, wind).
  - Currently in beta-testing, so Master UnlockCode required to enable feature
  - Show form with button on NMEA form, or the [Tab] key.

- Removed [Send message] button from target form. This feature will be fully implemented in a future SOB version.
- Tweaked AIS ROT formula. Rate of Turn appears correct with all testing.

Revision = R".7.26" 16 Dec 2006

- Changed Radar Rings on Ships Form to allow decimals (and thus ranges less than 1nm)
- Made toolbar positions and docking status persistent (remembered between sessions)
  - Chart toggles, and Levels toolbars are now "flat button format". (Helps support department distinguish between different versions when receiving screen-shots)
- Changed the way sound files are played by SOB.
  - "winmm.dll" file must be loaded (by Windows or the sound system installer) for SOB to be able to play WAV files
- Changed the display of some time formats, from "HH:MM:SS" to "HH:MM.SS"

PUBLIC RELEASE 17 Dec 2006

English v7.26
French v7.18
Dutch v7.22
Italian v7.25

Revision = ".7.28" 28 Dec 2006

- "Talking Pilot" form (Text To Speech)
  - "sapi.dll" must be installed for TTS feature
  - Full access for Licensed users. Only Time is enabled for trial version.

- Fixed potential problem with the NMEA depth value getting locked if a different Depth sentence is received but is corrupt.

- Added FileSize & percent played on NMEA textboxes for Logfile replays

- [5] key - toggle alternate CURSOR. (Yellow or Blue arrow). Cursor has to be changed before this takes affect.

- Info Mode zooming to the current level.
  - When in Info Mode, zooming will be constrained to change the zoom factor of the current level only. If the extents are reached (64x overzoom, .25x underzoom) then the next zoom step will return to the digitised scale (1x overzoom)

- UTC button on Messages panel replaced by "STAMP" button
  - Stamps: utc, timezone, fix, cog, sog to the panel and to the clipboard.

- Route Mark naming fixed

Revision = ".7.65" 15 Feb 2007

- Added [User Manual] button to [F1] form. Links to the SOB_User_Manual.PDF file installed in the SOBvMAX folder.

- Completed Tidal-Stream Polar Graph (right-click form)
  - Added prev/next buttons for tidal-stream predictions to step forward and back by day
  - Added View Tidal Stream Table (opens "TidalStream Table.txt" in NotePad)
  - TODO: Onscreen predictions via visual indicators

- Fixed problem with some virtual COM port connected GPS showing ZERO latitude.
- Fixed Ship's label "simple" version

- Networking fixes and Enhancements
  - Disabled SOB Client from sending an ID code. This was responsible for freezing some network connections, or preventing SOB Client/Server from connecting.
  - SOB Server sends two ID sentences when a client first connects
  - Tweaked the WAN Server Code – SOB Server much more efficient at sending data
  - WAN_List file is Archived each time after it is opened successfully

- Add UTC sentence (ZDA) to NMEA log file for when no GPS present checkbox on NMEA form

- Added XTE>500m message to Messages panel
  - Alarm Sound: 4 beeps (Same as Autopilot disabled)

- "Dampen & Calibrate" enabled for beta users (requires MUC)

PUBLIC RELEASE 15 Feb 2007

English	**v7. 65**
French	v7. 65
Dutch	v7. 65
Italian	v7.65
Norwegian	v7.65